

**ABSTRACT OF THE DISCLOSURE**

A method and system are disclosed for automatically creating crosstalk-corrected data of a microarray utilizing calibration dye spots each of which comprises a single pure dye. A microarray scanner, such as a confocal laser  
5 microarray scanner, generates dye images, each of which contains at least one of the calibration dye spots for each of the output channels of the scanner. For each of the calibration dye spots, an output of each of the output channels is measured to obtain output measurements. A set of correction factors is computed from the output  
10 measurements to correct the data subsequently gathered from the microarray scanner. In other words, the correction factors are applied to quantitation or measurement data obtained from microarray images which contain spots having dyes of known or unknown excitation or emission spectra to obtain crosstalk-corrected data.

09354500 07-16-99